



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER -3 (SOLVED)

Bio Botany Part 1

1. Which of the following pteridophyte is used as a biofertiliser ?

A. Marsilea

B. Pteridium

C. Pteris

D. Azolla

Answer:



Watch Video Solution

2. Which is not a character of root stock ?

A. Nodes

B. Internodes

C. Terminal bud

D. Root cap

Answer:



Watch Video Solution

3. Who first proposed the early elementary rule of naming plants ?

A. A.P.de Candolle

B. Linnaeous

C. Alphonse de Candolle

D. Simpson

Answer:



Watch Video Solution

4. Which of the following alone is formed in the division of plant cells ?

A. Aster

B. Centrioles

C. Spindle

D. Microtubules

Answer:



Watch Video Solution

5. A complete turn of the helix comprises

.....

A. 34 nm

B. 3.4 nm

C. 20 nm

D. 2 nm

Answer:



Watch Video Solution

6. Sun hemp is obtained from



Watch Video Solution

7. The color of the light is determined by its
.....



Watch Video Solution

Bio Botany Part Ii

1. Write the chemical composition of bacterial cell wall .



Watch Video Solution

2. Differentiate between vegetative morphology & reproductive morphology.



Watch Video Solution

3. What are vernacular names ? Give an example .



Watch Video Solution

4. What is the role of plasmodesmata in a plant cell?



Watch Video Solution

5. Define transport in plants. Mention the tissues involved in transportation.



Watch Video Solution

6. What is a Lichen?



[Watch Video Solution](#)

Bio Botany Part Iii

1. List out the importance of mycorrhiza.



[Watch Video Solution](#)

2. Classify buds based on their origin & function.



[Watch Video Solution](#)

3. Distinguish between Karyokinesis & Cytokinesis .



Watch Video Solution

4. Draw & label bicollateral vascular bundle .



Watch Video Solution

5. What is the significance of photorespiration?



Watch Video Solution

Bio Botany Part Iv

1. Define ptyxis.



Watch Video Solution

2. Explain *Clitoria ternatea* in botanical terms .

Draw floral diagram .



View Text Solution

3. Explain about Cohesion - Tension Theory .



Watch Video Solution

4. Explain Kuhne's experiment and the action of enzyme zymase.



Watch Video Solution

Bio Zoology Part I

1. Two words comprising the binomial nomenclature are

- A. Family & genus
- B. Order & Family
- C. Genus & species
- D. Species & Variety

Answer:



Watch Video Solution

2. Which of the following animals has a true coelom ?

A. Ascaris

B. Pheretima

C. Sycon

D. Taenia Solium

Answer:



Watch Video Solution

3. Match the List I and List II:

- | | |
|-----------------|--|
| 1. Vomiting | (i) Viral infection |
| 2. Jaundice | (ii) It is reverse peristalsis |
| 3. Gall Stones | (iii) Inflammation of the vermiform appendix |
| 4. Appendicitis | (iv) Crystallized cholesterol in the bil |

(a) 1 – (ii), 2 – (i), 3 – (iv), 4 – (iii)

(b) 1 – (i), 2 – (ii), 3 – (iii), 4 – (iv)

(c) 1 – (iv), 2 – (ii), 3 – (i), 4 – (iii)

(d) 1 – (ii), 2 – (iii), 3 – (iv), 4 – (i)



Watch Video Solution

4. ERV stands for

A. Expiratory Reserve Volume

B. Exchange Reserve Volume

C. Exchange Residual Volume

D. Expiratory Residual Volume

Answer:



Watch Video Solution

5. Which of the following is an incorrect statement ?

A. Sarcomere is the functional unit of cardiac muscles .

B. Myoglobin is a red - coloured respiratory pigment of the muscle fibre .

C. The study of muscle is called myology .

D. Skeletal muscle is attached to the bone by a bundle of collagen fibres known as tendon .

Answer:



Watch Video Solution

6. Which is right combination of names of ear ossicles ?

A. Malleous , incus and cochlus

B. Malleus , incus and stapes

C. Magnus, incus and stapes

D. Malleus , incus and cochlea

Answer:



Watch Video Solution

7. Which is a breed of West Bengal?

A. Brahma

B. Aseet

C. Leghorn

D. Chittagorg

Answer:



Watch Video Solution

1. Name the sensory organs of arthropods?



Watch Video Solution

2. Distinguish between living and non-living things.



Watch Video Solution

3. Define tissues .





[Watch Video Solution](#)

4. Draw the diagram of Rana hexadactyla - Brain dorsal view .



[Watch Video Solution](#)

5. Name the proteins which regulates the contraction of muscles .



[Watch Video Solution](#)

6. List any three common uses of shellac.



Watch Video Solution

Bio Zoology Part Iii

1. What are flame cells?



Watch Video Solution

2. How does cockroach survive without a head ?



Watch Video Solution

3. Distinguish between Oviparous and Viviparous animals .



Watch Video Solution

4. Explain limbic systems .



[Watch Video Solution](#)

5. Draw the diagram and label the parts of lobes of cerebral hemisphere .



[Watch Video Solution](#)

Bio Zoology Part Iv

1. Write the general characters of the phylum echinodermata.



Watch Video Solution

2. Explain the respiratory system of Rana hexadactyla .



Watch Video Solution

3. What are the steps of insertion of nucleus into oyster?



Watch Video Solution

4. Write a note on Pectrol gridle .



Watch Video Solution